Chemical Resistance Table - FlexConnect HP Frac Hose

Rating Scale:

1 Recomended - Little to minor effect
2 Minor to moderate effect
X Moderate to servere effect
– Not recommended

Contact your sales representative or anson@nov.com if you have additional questions

Chemical resistance of HNBR base polymer used in FlexConnect™

Other types of elastomer shown for reference only to highlight comparison to HNBR elastomer used in FlexConnect.

Chemical Name	FlexConnect HNBR	NBR*	EPDM*	ECO*	CR*	CSM*	Q*	FKM*	ACM*
Steam - 302°F (150°C)	2	—	1	—	—	—	—	X	—
Organic Acid									
Acetic Acid (30%)	2	2	1	2	1	1	1	2	—
Acid									
Hydrochloric Acid (25%)	1	2	1	—	2	1	2	1	—
Phosphoric Acid (20%)	1	2	1		2	1	2	1	
Nitric Acid (25%)	2	—	2	—	1	1	2	X	—
Alkali									
Sodium Hydroxide (30%)	1	2	1	2	—	1	2	2	
Aqueous Ammonia (28%)	1	1	1	2	1	1	1	2	—
Salt									
Sodium Chloride (30%)	1	1	1	1	1	1	1	1	
Sodium Carbonate (10%)	1	1	1		1	1	1	2	
Oxidizing Agent									
Hydrogen Peroxide (3%)	2	X	2		X	1	1	1	
Sodium Hypochlorite (5%)	2	—	2		—	2	2	1	—
Aliphatic Hydrocarbon									
Iso Octane	1	1	—	1	2	2	—	1	1
Aromatic Hydrocarbon									
Toluene	X	X	—	—	—	—	X	1	—
Chlorinated Hydrocarbon									
Trichlorethylene	X	X	—	—	—	—	—	1	
Alcohol									
Methyl Alcohol	1	1	1	2	1	1	1	X	—
Ethyl Alcohol	1	1	1	1	1	1	1	1	—
Ether									
Ethyl Ether	X	X	X	2	—	—	—	—	—
Ester									
Ethyl Acetate	—	—	2	—	X	X	—	X	
Ketone									
Methyl Ethyl Keton	—	—	1	—	—	—	—	—	—
Aldehyde									
Furfural	2	X	1	—	2	2	1	—	—
Amine									
Triethanolamine	1	X	1		1	1	—	—	—
Carbon Disulfide	X	X	—	—	—	—		1	

*Shown for reference only to highlight comparison to HNBR elastomer used in FlexConnect.